C. Smith

ENTERED

RAW SEQUENCE LISTING   DATE: 06/10/2003
PATENT APPLICATION: **US/09/964,824C**   TIME: 15:26:24

Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

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 1 <110> APPLICANT: Horrigan, Stephen
 2 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
 3       Signature Gene Sets
 4 <130> FILE REFERENCE: 689290-73
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 7 <150> PRIOR APPLICATION NUMBER: US/60/236,033
 8 <151> PRIOR FILING DATE: 2000-09-28
 9 <150> PRIOR APPLICATION NUMBER: US/60/236,032
10 <151> PRIOR FILING DATE: 2000-09-28
11 <150> PRIOR APPLICATION NUMBER: US/60/236,028
12 <151> PRIOR FILING DATE: 2000-09-28
13 <160> NUMBER OF SEQ ID NOS: 583
14 <170> SOFTWARE: PatentIn version 3.0
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17 <211> LENGTH: 521
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
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21 <221> NAME/KEY: misc_feature
22 <222> LOCATION: (1)...(521)
23 <223> OTHER INFORMATION: n=a,t,g or c
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27       agaaggcaga aatgacgtgg accaggactc cttacatgga gagtgtttta aaggcagttt       180
28       ttaaaaagcc cattttgtga aagaaaccag aaggctcgta attgctgtct gcactgtggt        240
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31       gatatgactg ctttcctttc atttctcatt aaattaaaat tcccacaaaa gtgcatggca        420
32       tcttttgaa acactgctaa ttttaaagtt tgggaaggtt tatcttcata gccacaatct        480
33       ttgcnaaagc cttggtaccg gnaacaaggc tccagtctgc c                          521
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 481
37 <212> TYPE: DNA
38 <213> ORGANISM: Homo sapiens
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41       aaagttcatg aatgaaataa aaaagacact ctcaaaatat taaaacctat ggaagaaaa       120
42       taagtaatta atgaatgatg tttttgtttc caaatacaat gaagtgattt tttattagag      180
43       tccttgggaa tcatctaagt tacaatacag aagagaatta aataaatcgt atatgatttt      240
44       gtaattagac actctatata tcacagttct ttgttaacct gggcatggaa cgtccctata      300
45       gcatatattt aaaaccatta attttttta aaaaaatttg agacatggtt tgttcttgtt       360
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RAW SEQUENCE LISTING   DATE: 06/10/2003
PATENT APPLICATION: US/09/964,824C   TIME: 15:26:24

Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

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47        taaaaaaaaa tcttgaaaca aattctcttg caatgatacg tatcacataa acttgatatg      480
48        c                                                                      481
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52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 3
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56        tagcagccgg ccttcgggtc gggcgtcttc cccggctact gccgcttcag ttcttccggt      120
57        gtggccacga gtcgggttgc acttctgtga tccatcctca tcttctaaag atgcatcctg      180
58        acttatctcc acacttgcac actgaagaat gcaacgtctt gattaacttg cttaaggaat      240
59        gtcacaaaaa tcacaacatt ctgaaatttt ttgggtattg taatgatgtt gatcgggggt      300
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64 <212> TYPE: DNA
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66 <400> SEQUENCE: 4
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68        ggtgaggagg cgccaccagg cgtgcggtcc gtcaaggtgg tcctggtggg cgacggcggc      120
69        tgcgggaaga cgtcgctgct gatggtcttc gccgatgggg ccttccccga gagctacacc      180
70        cccacggtgt ttgagcggta catggtcaac ctgcaagtga aggcaaacc tgtgcacctc       240
71        cacatctggg acacagcagg gcaagatgac tatgaccgcc tgcggcccct gttctaccct      300
72        gacgccagcg tcctgctgct ttgcttcgat gtcaccagcc cgaacagctt tgacaacatc      360
73        tttaaccggt ggtacccaga agtgaatcat ttctgcaaga aggtacccat catcgtcgtg      420
74        ggctgcaaga ctgacctgcg caaggacaaa tcactggtga acaagctccg aagaaacgga      480
75        ttggagcctg tgacctacca caggggccag gagatggcga ggtccgtggg cgcggtggcc      540
76        tacctcgagt gctcggctcg gctccatgac aacgtccacg ccgtcttcca ggaggccgcc      600
77        gaggtggccc tcagcagccg cggtcgcaac ttctggcggc ggattaccca gggctttgc       660
78        gtggtgacct gagcggctcg ggcgtccca gcgacgcggg aaggggcagg gcgctgacct       720
79        gctgctgagc tggctgggct ggacccggtc cctaggctgt gaccgccgaa ctccactgca      780
80        acagacgggc gccaccaaag ccaggccctg aggcctggga gtcctggact gagaaagggg      840
81        gttcctgggc ccacctgctc tgtgtagggc tcgtcctgcg gtgcccgaga atcactcgct      900
82        aaccctatg cccggtcccg gaccgacatc ctggagccgc ctgtgcagcc tgatgccccc       960
83        tcgtggctgc tcccagggct gcacctgcca ggacctaatg ttcttaggtc cctctggcca     1020
84        gaacccacac ccggcccctt cccacctgtc atactggtaa ctgtaacaag aaaaacgaca     1080
85        tcactt                                                               1086
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89 <212> TYPE: DNA
90 <213> ORGANISM: Homo sapiens
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93 <222> LOCATION: (1)...(486)
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RAW SEQUENCE LISTING   DATE: 06/10/2003
PATENT APPLICATION: US/09/964,824C   TIME: 15:26:24

Input Set : N:\Crf4\06032003\I964824C.raw
Output Set: N:\CRF4\06102003\I964824C.raw

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 99       ttcatcactg agaaggcggt cttctcccgc tgggccaaga agaggcccat cgtgttcgcc    240
100       catccgtcct ggaggactga gtagcttccg tcgtcctgcc agccgccatg ccgttgcgag    300
101       gcctccggga tgtcccatcc caagccatca cactccacaa aaacatttaa tttatgggat    360
102       cctgcctcct gccacgtgct gggtggganc ttaaggttcc ttcccacccc attgtgggcg    420
103       acatttggag ccattttcag gcttccattc cctgagtaat tcatgggcat tttgggggtt    480
104       cancca                                                               486
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112       aggacttgtt ctgggacttg tcatcttgga tgctgctgtg actgccccaa ctctagagtc    120
113       catcaactat gactcagaaa cctatgatgc caccttagaa gacctggata atttgtacaa    180
114       ctatgaaaac atacctgttg ataaagttga gattgaaata gccacagtaa tgccttcagg    240
115       gaacagagag ctcctcactc cacccccaca gcctgagaag gcccaggaag aggaagagga    300
116       ggaggaatct actcccaggc tgattgatgg ctcttctccc caggagcctg aattcacagg    360
117       ggttctgggg ccacacacaa atgaagactt ccaacctgt ctttggtgta cttgtataag    420
118       taccaccgtg tactgtgatg accatgaact tgatgctatt cctccgctgc caaagaacac    480
119       cgcttatttc tattcccgct ttaacagaat taaaaagatc aacaaaaatg actttgcaag    540
120       cctaagtgat ttaaaaagga ttgatctgac atcaaattta atatctgaga ttgatgaaga    600
121       tgcattccga aaactgcctc aacttcgaga gcttgtcctg cgtgacaaca aaataaggca    660
122       gctcccagaa ttgccaacca cttcgacatt tattgatatt agcaacaata gacttggaag    720
123       gaaagggata aagcaagaag catttaaaga catgtatgat ctccatcatc tgtacctcac    780
124       tgataacaac ttggaccaca tccctctgcc actcccagaa aatctacgag cccttcacct    840
125       ccagaataac aacattctgg aaatgcacga agatacgttc tgcaatggta aaaatttgac    900
126       ttatattcgt aaggcactag aggacattcg attggatgga aaccctatta atctcagcaa    960
127       aactccacaa gcatacatgt gtctacctcg tctgcctgtt gggagccttg tctaatttca   1020
128       gataatggtt agcattacga tggctactat aaataaacca ttcttactgc tctcttccaa   1080
129       aacaaaactc agcatgatac tttgagattg tgttctgaga gatgatatga ctacataaaa   1140
130       tacaattaaa aatgttataa tataatgaaa atgtagtaat ttaagaaaac accagatgag   1200
131       ttaggaataa acctataaca tttacaaaaa gagcaaaact aagtgataga aaatatttca   1260
132       cacatgttct tatagatcat gtatcacttg caagttttag gagttcatat cctatatcat   1320
133       ttcaaattaa gtacataata aagtaaaatt ttgaaatgaa cactttaggt attttttgcca   1380
134       agatttagat gtttttaatt aaacttttct cttccttttt ttttcactaa ggcatgttta   1440
135       ttcccctaat ccattaaaga gcatgaaaaa aagaataaat gtatttgaaa aaaaaaaaa   1500
136       aaaaaaaaaa aaaaa                                                     1515
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139 <211> LENGTH: 480
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
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144 <222> LOCATION: (1)...(480)
145 <223> OTHER INFORMATION: n=a,t,g or c
146 <400> SEQUENCE: 7
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148       agcatgccct acggagatct ggattcttat acactaagat gtgtcttaag aatcacagtg    120
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Input Set : N:\Crf4\06032003\I964824C.raw
Output Set: N:\CRF4\06102003\I964824C.raw

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         150        ttttggtacc tgtggctggc cacagccctg ttcctcaaag ctgaattgat agatttctct        240
         151        ttgacttcca agacctagca gttataaggc accttgaaat aaattgtttg tgcctggaaa        300
W--> 152        tgcagggagg gcaatagctt tgtaaattgg nttacatttt tctccttgaa ttttctagg        360
         153        gtcctagtgc ttccgaatca tttaatggca ttgtcggata tccttttaca tttcaattgc        420
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         162 <222> LOCATION: (1)...(416)
         163 <223> OTHER INFORMATION: n=a,t,g or c
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         166        acattttaaa gtatataatt tgcattttcc accttctcaa tgccaatgaa atattctagg        120
         167        agactctata agataaccaa ttgattttct actactccca aattttaact ttgtaattta        180
         168        aagaggaata ggcaaataga gctgctgtgg ttctggttct ccctgcagga tgaagggggc        240
         169        ctgcaaaatg tctcctactt ccattctagg tcattcagca aggtgccttc ctctggatgc        300
         170        actgtctgta tacttttgcc atgttgcatc acataatgga ttctggccca ccttacacca        360
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         174 <211> LENGTH: 371
         175 <212> TYPE: DNA
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         177 <400> SEQUENCE: 9
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         179        agccactact gaggaggagg gtcccatctc tctcctgtcg gctttcaccg aggtcacagc        120
         180        cagacgtggg gcaaaggtgt tccctgtcct acccagccat tcctgggcct gccgcctagg        180
         181        ggctcacagg gcccaggagt ccccagctca caggccaggg catcaggcca ggcgcgctcg        240
         182        gtgcacaccg cacctgtgga ggacctgggt acactcagga gaccaagagc actggcgggt        300
         183        caggatggtt ggcgttcagc tcctacgggg tggggagaag tctgtagccg agagcccagc        360
         184        cccctcctgc c                                                            371
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         187 <211> LENGTH: 419
         188 <212> TYPE: DNA
         189 <213> ORGANISM: Homo sapiens
         190 <400> SEQUENCE: 10
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         192        gcttaggacg ggcgggtgca atcctcgaag gggagtctca gcgaccatgg gggacaccat        120
         193        ccacatgcag gcggtagttg gggcctcggc agcgcctctc tggggtgccg ggggtccctg        180
         194        ttgcccctca gtgccctgtg gcgcaagggc tgcaggggcc ggctgttacc gctgaggctc        240
         195        tggaagatct gagatggagg attctggctc aggagtctca gggagtgcat ctgaagggag        300
         196        gtgatattga gggcccggtc aatgaggatc caggtgacag tctcggagca gggcggggtg        360
         197        ctgagagagc cctgataggt gatgaaaccg aagattcagg aacaggagc tccaggctc        419
         199 <210> SEQ ID NO: 11
         200 <211> LENGTH: 270
         201 <212> TYPE: DNA
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Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

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206       tttacaaata accagggggc aggtgtgccg tgatcgggaa tcgtgaggga actgagtacc     180
207       aggggcccct tggctcccaa cagccccagg ccctggggcg gacttggcac aggacccaag     240
208       aggaactgg ggcattgggg ggccggcaga                                        270
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 255
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 12
215       tttagtttag caccatttat taagtgatct cagctgttgt tgtagctgct gcgtgtcacc      60
216       gtgttcttaa aacataaaat gctcttccga ttcctcttgt ccaggacaga aggatcttcc     120
217       aggtagcacg ccaacagaac aagagactcc gatgacgcca gcttcaatga tggtgccatc     180
218       cagagaggga gagggtcatg gcacattcaa ccgcggcttc cagaggtttt gaaaaaggag     240
219       cctttggggg cccag                                                       255
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222 <211> LENGTH: 358
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 13
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227       attatatgaa tactacaagc atccaacaag aaataacctt cataaattag cataatttat     120
228       agcaggaaac ccaaataaac taaacttggc tgcctaaaat aatttgtcta aaggggata      180
229       tgctctttgt aagtatcatg ctgataaaac cataaaaatt cttttagagg aatgaggatt     240
230       aaaatgaaat ttctttatga cacggaaaaa aataataatt tgtctaaaag tgtaaaattt     300
231       taaaagcaaa cattatacac ataaccagca caattatttc catcttaaaa cattggtt       358
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 266
235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 14
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239       ggcatgtgca catttttccta gaaggacatg aatagtgatg tggaggtacg gtggaggtca     120
240       ggcatctaca gggtcattcg aggaggaaca gattcaagct ttcggacgat cagtgttttg     180
241       taaatagcag catcatcaga tctaagacaa cattggacct ggcagggcct tttctttggg     240
242       tggcattaat tactccagat tcagac                                           266
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 287
246 <212> TYPE: DNA
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 15
249       aacgtaaaca caaagtctca tttatttttg tctgaagcac acaggagctc actcagcaca      60
250       ataacagtaa gcgaatcata caaatattga gaaaaaatgt tcctatgaat acatacatgt     120
251       atattcttaa gagtagcgat caggagttta acaacaaatg taaagtggtt ttctctaaag     180
252       aatgctttct gacaggcttt tgggttggaa atggacaggt aaatcactgt cacataacag     240
253       gtaagctaag aataacttct gttacccaag tcatttgaac cctgtgg                    287
255 <210> SEQ ID NO: 16
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/10/2003
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Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:5;  N Pos. 66,69,389,483
Seq#:7;  N Pos. 331
Seq#:8;  N Pos. 9,404
Seq#:16; N Pos. 113,115,248,252
Seq#:17; N Pos. 15,386
Seq#:21; N Pos. 90,258
Seq#:22; N Pos. 330,361,419
Seq#:23; N Pos. 371,416
Seq#:24; N Pos. 217,232,315,333
Seq#:27; N Pos. 26,199
Seq#:28; N Pos. 145,222,228
Seq#:51; N Pos. 92,118,152,153,235,237,238,239,244,245,248,263,270,284
Seq#:52; N Pos. 12,352,359,400,408
Seq#:54; N Pos. 346,368
Seq#:55; N Pos. 180
Seq#:56; N Pos. 27
Seq#:57; N Pos. 432,478,495
Seq#:59; N Pos. 481
Seq#:63; N Pos. 104,120,188
Seq#:64; N Pos. 44,146,265,285
Seq#:65; N Pos. 11,130,133,190,313
Seq#:66; N Pos. 375,417
Seq#:68; N Pos. 146
Seq#:69; N Pos. 187,223
Seq#:70; N Pos. 3
Seq#:71; N Pos. 158,161,274,393
Seq#:77; N Pos. 8,10,11,21,28,37,54,55,117,126,130,133,152,154,155,158,159
Seq#:77; N Pos. 160,161,164,179,180,187,193,335,417,461,503,526
Seq#:78; N Pos. 398
Seq#:79; N Pos. 519,535
Seq#:80; N Pos. 575
Seq#:81; N Pos. 167
Seq#:90; N Pos. 274,366,371,458,463,496,504,510,519
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Seq#:93; N Pos. 2,3,35,158,199,238,271,421,459,524,540
Seq#:107; N Pos. 503,512
Seq#:108; N Pos. 343
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Seq#:123; N Pos. 410
Seq#:124; N Pos. 332,463,492,510,525,541,546,551,589,606,622
Seq#:125; N Pos. 515
Seq#:126; N Pos. 3,4,5,12,174,390,401,429,483,524,530,532,533,534,535,536
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/10/2003
PATENT APPLICATION: **US/09/964,824C**   TIME: 15:26:25

Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

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Seq#:126; N Pos. 610,611,612,613,614,615,616,619,620,621,622,624,625,626
Seq#:126; N Pos. 627,631,632,633,634,635,636,638,639,641,643,644,646,648
Seq#:126; N Pos. 649,651,652,653,654,655,656,659,662,663,665,667,668,669
Seq#:126; N Pos. 671,674,675,677,678,679,680,681,682,683,684,686,688,690

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 2

VERIFICATION SUMMARY   DATE: 06/10/2003
PATENT APPLICATION: **US/09/964,824C**   TIME: 15:26:25

Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

L:5 M:270 C: Current Application Number differs, Wrong Format
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:240
M:341 Repeated in SeqNo=1
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
M:341 Repeated in SeqNo=5
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
M:341 Repeated in SeqNo=21
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:300
M:341 Repeated in SeqNo=22
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:360
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
M:341 Repeated in SeqNo=24
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
M:341 Repeated in SeqNo=28
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
M:341 Repeated in SeqNo=51
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
M:341 Repeated in SeqNo=52
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:300
M:341 Repeated in SeqNo=54
L:805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:420
M:341 Repeated in SeqNo=57
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:480
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:60
M:341 Repeated in SeqNo=63
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
M:341 Repeated in SeqNo=64
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
M:341 Repeated in SeqNo=65
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:360
L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:120
L:1018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:180
L:1030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:1045 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120
M:341 Repeated in SeqNo=71
L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
M:341 Repeated in SeqNo=77

VERIFICATION SUMMARY   DATE: 06/10/2003
PATENT APPLICATION: **US/09/964,824C**   TIME: 15:26:25

Input Set : **N:\Crf4\06032003\I964824C.raw**
Output Set: **N:\CRF4\06102003\I964824C.raw**

L:1147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:360
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:480
L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:540